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1. arXiv:2209.07781 [pdf] physics.geo-ph

Seismic hazard assessment in Menton, France: Topographical site effect zoning considering a semi-empirical approach and a Machine Learning scheme

Authors: Mathieu Allimant, Etienne Bertrand, Nathalie Glinsky, Celine Bourdeau

Abstract: The presence of topography influences the seismic ground motion and may result in strong amplifications, generally at the top of hills and reliefs. The increasing urbanization of hills requires an accurate estimation of these effects even in areas of moderate seismicity. The simplified coefficients provided by the Eurocodes8 do not depend on the frequency and underestimate the amplification in man… ▽ More

Submitted 16 September, 2022; **originally announced** September 2022.

Journal ref: Arion, Alexandra Scupin, Alexandru Ţig{\u a}nescu, Sep 2022, **Bucarest**, Romania. pp.(4775-4784)

2. arXiv:2206.10221 [pdf, other] q-bio.QM

Stability versus Meta-stability in a Skin Microbiome Model

Authors: Eléa Thibault Greugny, Georgios N Stamatas, François Fages

Abstract: The skin microbiome plays an important role in the maintenance of a healthy skin. It is an ecosystem, composed of several species, competing for resources and interacting with the skin cells. Imbalance in the cutaneous microbiome, also called dysbiosis, has been correlated with several skin conditions, including acne and atopic dermatitis. Generally, dysbiosis is linked to colonization of the skin… ▽ More

Submitted 21 June, 2022; **originally announced** June 2022.

Journal ref: Int. Conf. Computational Methods in Systems Biology, Sep 2022, **Bucarest**, Romania

3. arXiv:2206.09624 [pdf, other] q-bio.MN q-bio.QM

Algebraic Biochemistry: a Framework for Analog Online Computation in Cells

Authors: Mathieu Hemery, François Fages

Abstract: The Turing completeness of continuous chemical reaction networks (CRNs) states that any computable real function can be computed by a continuous CRN on a finite set of molecular species, possibly restricted to elementary reactions, i.e. with at most two reactants and mass action law kinetics. In this paper, we introduce a notion of online analog computation for the CRNs that stabilize the concentr… ▽ More

Submitted 20 June, 2022; **originally announced** June 2022.

Journal ref: Proc. Int. Conf. Computational Methods for Systems Biology CMSB'22, Sep 2022, **Bucarest**, Romania

4. arXiv:1201.4445 [pdf] cs.RO

Experimental Characterization of Robot Arm Rigidity in Order to Be Used in Machining Operation

Authors: Jean-Yves K'Nevez, Mehdi Cherif, Miron Zapciu, Alain Gérard

Abstract: Attempts to install a rotating tool at the end of a robot arm poly-articulated date back twenty years, but these robots were not designed for that. Indeed, two essential features are necessary for machining: high rigidity and precision in a given workspace. The experimental results presented are the dynamic identification of a poly-articulated robot equipped with an integrated spindle. This stud… ▽ More

Submitted 21 January, 2012; **originally announced** January 2012.

Journal ref: 19 th International Conference on Manufacturing System - ICMaS 2010, **Bucarest** : Romania (2010)

5. **arXiv:0909.5023** [**pdf**] physics.class-ph

The Regenerative Vibrations Influence on the Mechanical Actions in Turning

Authors: Claudiu-Florinel Bisu, Raynald Laheurte, Alain Gérard, Jean-Yves K'Nevez

Abstract: In manufacturing during the cutting process the appearance of vibrations can not be avoided. These vibrations constitute a major obstacle to obtain a greater productivity and a better quality of the workpiece. It is thus necessary to develop models which make it possible to study, the totality of the 3D dynamic phenomena. Thanks to an experimental approach the complete torque of the mechanical a… ▽ More

Submitted 28 September, 2009; **originally announced** September 2009.

Journal ref: 15th Int. Conf.Manuf. Syst., **BUCAREST** : Romania (2006)

6. **arXiv:0909.5022** [**pdf**] physics.class-ph

Metrology Influence on the Cutting Modelisation

Authors: Olivier Cahuc, Alain Gérard

Abstract: High speed machining has been improved thanks to considerable advancement on the tools (optimum geometry, harder materials), on machined materials (increased workability and machining capacity for harder workpieces) and finally on the machines (higher accuracy and power at the high speeds, performances of the numerical control system). However at such loading velocities, the cutting process gene… ▽ More

Submitted 28 September, 2009; **originally announced** September 2009.

Journal ref: 15 th International Conference on Manufacturing Systems, **BUCAREST** : Romania (2006)

7. **arXiv:0909.5020** [**pdf**] physics.class-ph

Analyzes Geometry of Part and Chips at the Time of Regeneratives Vibrations

Authors: Claudiu-Florinel Bisu, Jean-Yves K'Nevez, Alain Gérard, Raynald Laheurte

Abstract: The actions of cut applied to the elastic system cause relative displacements tool/part, which induce a rise in the temperature in the components of the machine tools, its environment, the system-tools-part and generate vibrations. The experimental procedures installation, at the dynamic level, made it possible to determine the elements necessary to a rigorous analysis of the influence of the ge… ▽ More

Submitted 28 September, 2009; **originally announced** September 2009.

Journal ref: 17 th International Conference on Manufacturing Systems, **BUCAREST** : Romania (2008)

8. **arXiv:0909.5019** [**pdf**] physics.class-ph

Optimization and Dynamic Characterization System Part in Turning

Authors: Claudiu-Florinel Bisu, Constantin Ispas, Alain Gérard, Jean-Yves K'Nevez

Abstract: The appearance of the self-sustained vibrations corresponds to the dynamic instability of the machine tool. An experimental device and a model were designed to characterize the cutting system, the block part. This analysis shows the need for knowing more details of it the behavior of the coin at the time of the cut, and for envisaging for the continuation the appearance of vibrations.

Submitted 28 September, 2009; **originally announced** September 2009.

Journal ref: The International Conference On Manufacturing Systems, **BUCAREST** : Romania (2007)

9. **arXiv:0909.5018** [**pdf**] physics.class-ph

Regeneratives Vibrations Analyzes On The Part And Chip

Authors: Constantin Ispas, Claudiu-Florinel Bisu, Alain Gérard, Doru Bardac

Abstract: The actions of cut applied to the elastic system generate relative tool/part displacements, which induce a temperature increasing in the components of the machine tools, its environment, the system-tools-part and generate vibrations. The experimental procedures used, at the dynamic level, made it possible to determine the elements necessary to analyze the influence of the tool geometry, its disp… ▽ More

Submitted 28 September, 2009; **originally announced** September 2009.

Journal ref: 1st WSEAS (VIS'08), **BUCAREST** : Romania (2008)

10. **arXiv:0901.4272** [**pdf**] cs.IT

Dynamic Control of a Flow-Rack Automated Storage and Retrieval System

Authors: Khalid Hachemi, Hassane. Alla

Abstract: In this paper we propose a control scheme based on coloured Petri net (CPN) for a flow-rack automated storage and retrieval system. The AS/RS is modelled using Coloured Petri nets, the developed model has been used to capture and provide the rack state. We introduce in the control system an optimization module as a decision process which performs a real-time optimization working on a discrete ev... ▽ More

Submitted 27 January, 2009; **originally announced** January 2009.

Comments: CSCS 17 15th International Conference on Control Systems and Computer Science, **Bucarest** : Roumanie (2007)

11. **arXiv:0901.3199** [**pdf**, **ps**, **other**] cs.NI

A Distributed Trust Diffusion Protocol for Ad Hoc Networks

Authors: Michel Morvan, Sylvain Sené

Abstract: In this paper, we propose and evaluate a distributed protocol to manage trust diffusion in ad hoc networks. In this protocol, each node i maintains a \trust value" about an other node j which is computed both as a result of the exchanges with node j itself and as a function of the opinion that other nodes have about j. These two aspects are respectively weighted by a trust index that measures th... ▽ More

Submitted 21 January, 2009; **originally announced** January 2009.

Journal ref: Second International Conference on Wireless and Mobile Communications, **Bucarest** : Roumanie (2006)

12. **arXiv:0812.1094** [**pdf**] cs.NE

Sélection de la structure d'un perceptron multicouches pour la réduction dun modèle de simulation d'une scierie

Authors: Philippe Thomas, André Thomas

Abstract: Simulation is often used to evaluate the relevance of a Directing Program of Production (PDP) or to evaluate its impact on detailed scénarii of scheduling. Within this framework, we propose to reduce the complexity of a model of simulation by exploiting a multilayer perceptron. A main phase of the modeling of one system using a multilayer perceptron remains the determination of the structure of... ▽ More

Submitted 5 December, 2008; **originally announced** December 2008.

Comments: 7 pages

Journal ref: Conférence Internationale Francophone d'Automatique CIFA'08, **Bucarest** : Roumanie (2008)

13. **arXiv:0812.0882** [**pdf**] cs.NE

Elagage d'un perceptron multicouches : utilisation de l'analyse de la variance de la sensibilité des paramètres

Authors: Philippe Thomas, André Thomas

Abstract: The stucture determination of a neural network for the modelisation of a system remain the core of the problem. Within this framework, we propose a pruning algorithm of the network based on the use of the analysis of the sensitivity of the variance of all the parameters of the network. This algorithm will be tested on two examples of simulation and its performances will be compared with three ot... ▽ More

Submitted 4 December, 2008; **originally announced** December 2008.

Comments: 6 pages

Journal ref: Conférence Internationale Francophone d'Automatique CIFA'08, **Bucarest** : Roumanie (2008)

14. **arXiv:0806.4596** [**pdf**, **ps**, **other**] cond-mat.mtrl-sci cond-mat.stat-mech

Rigidity-based approach to the boson peak in amorphous solids: from sphere packing to amorphous silica

Authors: Matthieu Wyart

Abstract: Glasses have a large excess of low-frequency vibrational modes in comparison with continuous elastic body, the so-called Boson Peak, which appears to correlate with several crucial properties of glasses, such as transport or fragility. I review recent results showing that the Boson Peak is a necessary consequence of the weak connectivity of the solid. I explain why in assemblies repulsive sphere... ▽ More

Submitted 27 June, 2008; **originally announced** June 2008.

Comments: 10 pages, 7 figures

Journal ref: Rigidity and Boolchand Intermediate Phases in Nanomaterials, M. Micoulaut, M. Popescu Eds. (INOE **Bucarest**, 2009) p. 159-177

15. **arXiv:0711.4577** [**pdf**, **ps**, **other**] astro-ph physics.space-ph

Gravitational potential, inertia and Earth rotation

Authors: G. Bourda

Abstract: Several satellite missions, devoted to the study of the Earth gravity field, have been launched (like CHAMP, recently). This year, GRACE (Gravity Recovery and Climate Experiment) will allow us to obtain a more precise geoid. But the most important is that they will supply the temporal variations of the geopotential coefficients (called Stokes coefficients). In the poster we show how the Earth gr… ▽ More

Submitted 28 November, 2007; **originally announced** November 2007.

Journal ref: Dans Journées 2002 - systèmes de référence spatio-temporels. - Astrometry from ground and from space, **Bucarest** : Roumanie (2002)

16. **arXiv:math-ph/0405014** [**pdf**, **ps**, **other**] math-ph

Progressive diagonalization and applications

Authors: P. Duclos, O. Lev, P. Stovicek, M. Vittot

Abstract: We give a partial review of what is known so far on stability of periodically driven quantum systems versus regularity of the bounded driven force. In particular we emphasize the fact that unbounded degeneracies of the unperturbed Hamiltonian are allowed. Then we give a detailed description of an extension to some unbounded driven forces. This is done by representing the Schroedinger equation in… ▽ More

Submitted 6 May, 2004; **originally announced** May 2004.

Comments: 16 pages, Latex2e

Journal ref: Proceedings of the Conference "Operator Algebras & Mathematical Physics", Constanta (Roumanie, 2001), R. Purice Ed., Theta Foundation, **Bucarest** (2003)

17. **arXiv:math/0404295** [**pdf**, **ps**, **other**] math.OA

Dimensions and spectral triples for fractals in R^N

Authors: Daniele Guido, Tommaso Isola

Abstract: Two spectral triples are introduced for a class of fractals in R^n. The definitions of noncommutative Hausdorff dimension and noncommutative tangential dimensions, as well as the corresponding Hausdorff and Hausdorff-Besicovitch functionals considered in math.OA/0202108, are studied for the mentioned fractals endowed with these spectral triples, showing in many cases their correspondence with cl… ▽ More

Submitted 30 June, 2005; **v1** submitted 16 April, 2004; **originally announced** April 2004.

Comments: 24 pages, 4 figures. To appear in Proceedings of the Conference "Operator Algebras and Mathematical Physics" held in Sinaia, Romania, June 2003, O. Bratteli, R. Longo H. Siedentop Eds., Theta Foundation, **Bucarest**

MSC Class: 46Lxx; 28A80

Journal ref: In "Advances in Operator Algebras and Mathematical Physics", Proceedings of the Conference held in Sinaia, Romania, June 2003, F. Boca, O. Bratteli, R. Longo H. Siedentop Eds., Theta Series in Advanced Mathematics, Bucharest 2005.

18. **arXiv:astro-ph/0003044** [**pdf**, **ps**, **other**] astro-ph

Theory of solar luminosity variations

Authors: H. C. Spruit

Abstract: The theory of stellar structure can be used to identify the most plausible mechanisms for the irradiance variations associated with the solar cycle. Changes in surface emissivity, i.e. the reduced cooling in spots and enhanced emission by small scale magnetic fields, are the most effective mechanisms and account for most of the observed variation. Helioseismology will soon be able to test the co… ▽ More

Submitted 3 March, 2000; **originally announced** March 2000.

Comments: To appear in Advances in solar research at eclipses ... (NATO ASI **Bucarest** 1999), eds. J.-P. Zahn and M. Stavinschi